

JKBOSE PATTERN TEST PAPER-2024 CLASS - XII SUBJECT ZOOLOGY



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TIME : 90 Minutes**MAX. MARKS : 35****GENERAL INSTRUCTIONS:**

This question paper contains four sections:

- i. Section -A contains 5 Very Very Short Answer Type Questions of 1 mark each.
(1 x 5= 5 marks)
- ii. Section- B contains 5 Very Short Answer Type Questions of 2 marks each to be answered in 20 to 30 words.
(2 x 5 = 10 marks)
- iii. Section - C contains 5 Short Answer Type Questions of 3 marks each to be answered in 100 to 150 words.
(3 x 5=15 marks)
- iv. Section - D contains I Long Answer Type Questions of 5 marks each to be answered in 150 to 200 words.
(5 x 1=5 marks)

SECTION-A (Objective type questions of 1 mark each)

- Q1. Acrosome in a sperm is modified:
- (1) Golgi complex
 - (2) Endoplasmic reticulum
 - (3) Mitochondria
 - (4) Vacuole
- Q2. Tobacco consumption is known to stimulate the secretion of adrenaline and nor-adrenaline from adrenal glands. The component in tobacco causing this is:
- (1) Carbon monoxide
 - (2) Curamin
 - (3) Nicotine
 - (4) tannic acid
- Q3. Which genetic disorder in humans is due to presence of an additional copy of a sex chromosome?
- (1) Down's syndrome
 - (2) Turner's syndrome
 - (3) Klinefelter's syndrome
 - (4) Colour blindness.
- Q4. Which type of sex-determination is found in grasshopper?
- (1) XO type
 - (2) XY type
 - (3) ZW type
 - (4) none of these
- Q5. Replacement of a defective gene with a normal gene is called as:
- (1) Gene banking
 - (2) Gene silencing
 - (3) Gene therapy
 - (4) None of these

TIME : 90 Minutes**MAX. MARKS : 35****SECTION-B (Very Short Answer Type Questions of 2 marks each)**

- Q6. What is semen? Mention its pH and composition.
- Q7. What are homologous organs? Give two important examples.
- Q8. Give some applications of DNA fingerprinting.
- Q9. Write a short note on *Bt*-cotton.
- Q10. What are restriction enzymes? Explain briefly with the help of an example.

SECTION-C (Short Answer Type Questions of 3 marks each)

- Q11. How are cancerous cells different from normal cells? Explain briefly some reasons that convert normal cells into cancerous cells.
- Q12. What are Mendelian disorders? Discuss any two recessive Mendelian disorders.
- Q13. Give three main differences between follicular phase and luteal phase of menstrual cycle.
- Q14. Briefly explain the three main similarities between Darwinism and modern theory of evolution of life on the Earth.
- Q15. List the harmful effects caused by alcohol/drug abuse.

SECTION-D (Long Answer Type Questions of 5 marks each)

- Q16. With the help of a neat and labeled diagram, briefly explain the anatomy of human testis.

OR

Give five main differences between spermatogenesis and oogenesis.
